

(b) a component recognizing CD40 antigen comprising a first antibody, or antigen-binding fragment thereof, that binds to a fiber-knob protein of said adenovirus, wherein said first antibody or antigen-binding fragment thereof is fused to a second antibody, or
5 antigen-binding fragment thereof, that binds to CD40 antigen.

Please amend claim 11 as follows:

11. (twice amended) A method for genetically
manipulating CD40⁺ immune cells in an individual, comprising the
10 step of:

administering the gene delivery system of claim 1 to said individual, wherein said gene delivery system mediates gene transduction and causes maturation of said immune cells. —

15 Please amend claim 14 as follows:

14. (twice amended) A method for genetically
manipulating CD40⁺ immune cells in an individual, comprising the
step of:

administering the gene delivery system of claim 6 to said
20 individual, wherein said gene delivery system mediates gene transduction and causes maturation of said immune cells.

Please amend claim 17 as follows:

17. (twice amended) A method for enhancing dendritic cell-based vaccination in an individual, comprising the step of:

administering the gene delivery system of claim 1 to said individual, wherein said gene delivery system increases vaccination efficacy of CD40⁺ dendritic cells in said individual.

Please amend claim 21 as follows:

21. (twice amended) A method for enhancing dendritic cell-based vaccination in an individual, comprising the step of:

administering the gene delivery system of claim 6 to said individual, wherein said gene delivery system increases vaccination efficacy of CD40⁺ dendritic cells in said individual.

Please amend claim 40 as follows:

40. (twice amended) A method for enhancing dendritic cell-based vaccination in an individual, comprising the step of:

administering the gene delivery system of claim 34 to said individual, wherein said gene delivery system increases vaccination efficacy of CD40⁺ dendritic cells in said individual.

Please amend claim 43 as follows:

43. (twice amended) A method for enhancing dendritic cell-based vaccination in an individual, comprising the step of:

administering the gene delivery system of claim 38 to
5 said individual, wherein said gene delivery system increases vaccination efficacy of CD40⁺ dendritic cells in said individual.

Please amend claim 53 as follows:

53. (twice amended) A method for enhancing dendritic
10 cell-based vaccination in an individual, comprising the step of:

administering the gene delivery system of claim 47 to
said individual, wherein said gene delivery system increases
vaccination efficacy of CD40⁺ dendritic cells in said individual.

15 Please amend claim 55 as follows:

55. (twice amended) A method for enhancing dendritic cell-based vaccination in an individual, comprising the step of

administering the gene delivery system of claim 51 to
said individual, wherein said gene delivery system increases
20 vaccination efficacy of CD40⁺ dendritic cells in said individual.